

Product datasheet

Anti-MRP1 antibody [EPR21061] - BSA and Azide free ab234104

Recombinant RabMAb

5 Images

Overview

Product name	Anti-MRP1 antibody [EPR21061] - BSA and Azide free
Description	Rabbit monoclonal [EPR21061] to MRP1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human MRP1 aa 1500 to the C-terminus. The exact sequence is proprietary. Database link: P33527
Positive control	IHC-P: Human esophagus cancer tissue.
General notes	<p>Ab234104 is the carrier-free version of ab230948. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab234104 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next</p>

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21061
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab234104** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 171 kDa.

Target

Function

Mediates export of organic anions and drugs from the cytoplasm. Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics. Confers resistance to anticancer drugs. Hydrolyzes ATP with low efficiency.

Tissue specificity

Lung, testis and peripheral blood mononuclear cells.

Sequence similarities

Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily.

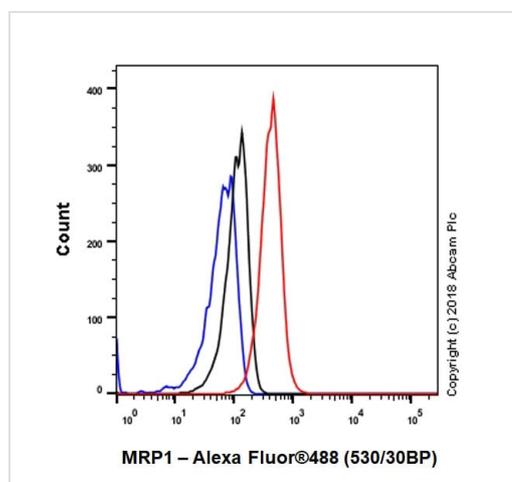
Contains 2 ABC transmembrane type-1 domains.

Contains 2 ABC transporter domains.

Cellular localization

Cell membrane.

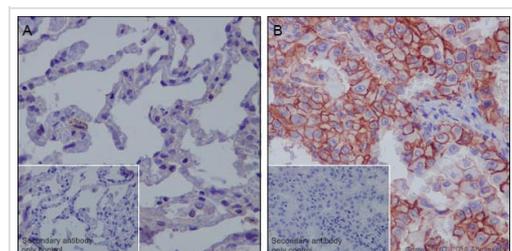
Images



Flow Cytometry - Anti-MRP1 antibody [EPR21061] - BSA and Azide free (ab234104)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cell line labeling MRP1 with [ab230948](#) at 1/50 (red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (black) and an unlabeled control (cells incubated with secondary antibody only) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230948](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP1 antibody [EPR21061] - BSA and Azide free (ab234104)

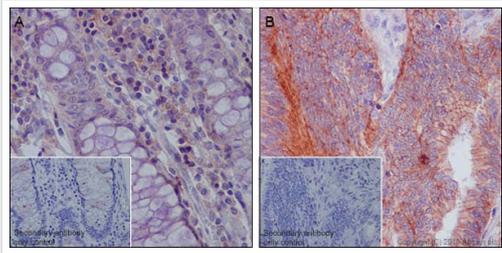
Immunohistochemical analysis of paraffin-embedded human lung cancer (B) and its adjacent noncancerous tissue (A) labeling MRP1 with [ab230948](#) at 1/250 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Strong membranous and cytoplasmic staining in human lung cancer tissue (B) with weak staining in its adjacent noncancerous tissue (A) (PMID:23667609) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide ([ab230948](#)).



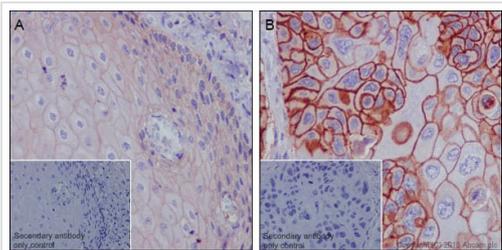
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP1 antibody [EPR21061] - BSA and Azide free ([ab234104](#))

Immunohistochemical analysis of paraffin-embedded human colon cancer (B) and its adjacent noncancerous tissue (A) labeling MRP1 with [ab230948](#) at 1/250 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Strong membranous and cytoplasmic staining in human colon cancer tissue (B) with weak staining in its adjacent noncancerous tissue (A) (PMID:23667609) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230948](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRP1 antibody [EPR21061] - BSA and Azide free ([ab234104](#))

Immunohistochemical analysis of paraffin-embedded human esophagus cancer (B) and its adjacent noncancerous tissue (A) labeling MRP1 with [ab230948](#) at 1/250 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Strong membranous staining in human esophageal cancer tissue (B) with weak staining in its adjacent noncancerous tissue (A) (PMID:26870278) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230948](#)).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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